SAFETY DATA SHEET PTFE          -Rev.  01

PRODUCT NAME: Semifinished PTFE Products  

1. CHEMICAL PRODUCT/COMPANY IDENTIFICATION

1.1 Material Identification: CAS Number  %
   POLYTETRAFLUOROETHYLENE  9002-84-0  100

1.2 Company Identification: 
   Manufacturer/Distributor  
   GAPI s.r.l.  
   via Marconi 108  
   I 24060 Castelli Calepio (BG), ITALY  
   ph  +39 035 84 70 84  
   fax  +39 035 84 84 67

1.3 UK Distributor:  
   theplasticshop.co.uk  
   16 Bayton Road  
   Coventry, CV7 9EJ  
   UK

2. COMPOSITION/INFORMATION ON INGREDIENTS

2.1 Material: PTFE ( POLYTETRAFLUOROETHYLENE )

3. HAZARDS IDENTIFICATION

3.1 The primary hazard associated with these polymers is the inhalation of fumes from overheating or burning. Heating PTFE above 300 degrees C may liberate a fine particulate fume

3.2 Polymer fume fever, a temporary flu-like condition with fever, chills, nausea, shortness of breath, chest tightness, muscle or joint ache.

3.3 The symptoms are often delayed 4 to 24 hours after exposure. These signs are generally temporary, lasting 24-48 hours and resolve without further complications.

3.4 However, some individuals with repeat episodes of polymer fume have reported persistent pulmonary effects. Exposure to decomposition products from PTFE heated above 400 degrees C may cause pulmonary inflammation, hemorrhage or oedema.

3.5 These more serious consequences of exposure may occur from extreme thermal decomposition of PTFE which can liberate fume particles, and toxic gases especially under condition of poor ventilation and/or confined spaces.

3.6 These decomposition products may initially produce chest tightness or pain, chills, fever, nausea, with shortness of breath, cough, wheezing and progression into pulmonary oedema.

4. FIRST-AID MEASURES

4.1 Inhalation: 
   Polymer fume fever, a temporary flu-like condition with fever, chills, nausea, shortness of breath, chest tightness, muscle or joint ache.
   No specific intervention is indicated as the compound is not likely to be hazardous by inhalation. Consult the physician if necessary. If exposed to fumes from overheating or combustion, move to fresh air. Consult the physician if symptoms persist.

4.2 Skin contact: Irritation, pain or blurred vision may result.
   The compound is not likely to be hazardous by skin contact, but clean the skin after use is advisable. If molten polymer gets on skin, cool rapidly with cold water. Do not attempt to peel polymer from skin. Obtain medical treatment for thermal burn.
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4.3 Eye contact Irritation, pain or blurred vision may result. In case of contact, immediately flush eyes with plenty of water. Call a physician.

4.4 Ingestion: No toxic. No specific intervention is indicated as compound is not likely to be hazardous by ingestion. Obtain medical attention if necessary.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing Media: As appropriate for surrounding materials/equipment.

5.2 Equipment: Wear self-contained apparatus. Wear full protective equipment (antacid). Hydrogen fluoride fumes emitted during a fire can react with water to form hydrofluoric acid.

5.3 Risk: If a flame is applied to the material it will ignite but if the flame is removed then combustion ceases. Combustion or thermal decomposition will evolve very toxic and corrosive vapours (example HF e COF$_2$).

6. ACCIDENTAL RELEASE MEASURES

6.1 No risk.

7. HANDLING AND STORAGE

7.1 Handling Usual protective clothing must be worn. Avoid to use material at high temperature (280°C) and care should be taken to prevent inhalation of fume. When using do not smoke.

7.2 Storage Extra care should be taken to prevent burns from contact with hot material, contact with hot surface and with naked flames.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Occupational Exposure limits during thermal decomposition of material

- Hydrofluoric acid (HF) TLV = 2,6mg/m3 (Threshold Limit Value)
- Carbonyl fluoride (COF$_2$) TLV = 5,4 mg/m3 (Threshold Limit Value)

8.2 Personal Protection Inhalation

Eye/face protection: Wear safety glasses. Wear coverall chemical splash goggles and face shield when possibility exist for eye and face contact to splashing or spraying of molten material.

Body: Wear heat resistant clothing and footwear.

8.3 Engineering Controls

Ventilation Use local ventilation exhaust to completely remove vapours and fumes liberated during processing from the work area.
9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>Solid tubing</td>
</tr>
<tr>
<td>Density</td>
<td>2.17 gr/cm³</td>
</tr>
<tr>
<td>Melting Point</td>
<td>327/335°C</td>
</tr>
<tr>
<td>Explosion</td>
<td>Not</td>
</tr>
<tr>
<td>Solubility</td>
<td>Not in water or in organic solvent</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

10.1 Stable at normal temperatures and storage conditions.
10.2 Extra care should be taken to prevent heating up 350°C, to prevent burns from contact with flame's hot material, contact with hot surface and naked.

11. TOXICOLOGICAL INFORMATION

11.1 In usual condition harmful effects for man are not knowned.
11.2 PTFE has no cancerogenic effect.
11.3 The thermal decomposition products are toxic.

12. ECOLOGICAL INFORMATION

12.1 No risk of environmental pollution.
12.2 When PTFE is burned decomposition products begin to be emissioned.

13. WASTE DISPOSAL

13.1 No specific risk. If possible to recycle is suggested.
13.2 Treatment, storage, transportation, and disposal must be in accordance with applicable federal, state/provincial, and local regulation.

14. TRANSPORT INFORMATION

14.1 Not classified as Hazardous for transport. Only risk is when PTFE burns.

15. REGULATORY INFORMATION

15.1 Regulation CEE  Directive CEE 67/548 and subsequent amendments
15.2 Italian Regulation  DPR 303/56 Health controls

16. OTHER INFORMATION

The data sheet was prepared in accordance with the Directive CEE 91/155